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ANTI OIL LEAKAGE DEVICE FOR A MOTOR SHAFT

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BACKGROUND OF THE INVENTION

1. Field of the Invention:

The present invention is related to an anti oil leakage device for a motor shaft and especially to a leakage resistant structure of a fan motor shaft.

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2. Brief Description of Related Art:

Referring to Fig. 1, the conventional anti oil leakage for a fan includes a fan frame 11 and fan blade wheel 12. The fan frame 11 provides a base 111 with a hollow bearing seat 112 externally fitting with a stator 13 and internally receiving a retaining ring 15, a bearing 16 and an O-ring 17. The fan blade wheel 12 has a hub 121 and fan blades 15 122. The hub 121 receives a rotor 18 and is provided with a shaft 123 at the center thereof to pierce the O-ring 17, the bearing 16 and the retaining ring 15 successively so that the fan blade wheel 12 can be movably joined to the fan frame 11 in the base 111 and the lubrication 20 oil can be prevented from leaking out due to being sealed with the O-ring 17.

A problem of the preceding conventional anti leakage structure resides in that the O-ring 17 is made with inconsistent tolerances, which result in excessively large clearance between the shaft 123 and 25 the O-ring 17, so that the lubrication oil leaks out through the clearance.

Further, Taiwan Utility Model Publication No. 365482, which is entitled "ANTI OIL LEAKAGE DEVICE FOR A MOTOR SHAFT", discloses a main body with a locating seat and a hollow bearing sleeve projecting from 30 the locating seat. The bearing sleeve provides an inner self-lubrication bearing, an outer coil and a circuit board. A blade